Work Orde April-24-14 9:52		17119 ^{15 1 1 7}	119	*117	119*		٠.				٠.	Page 1
Item ID: I Revision ID:	D3564-13	N. da		Accept	*N900	1 040	110	N *	Setup		*N	S1*
Item Name:	Stainless Stee	el Wearpad Fwd			•					Stop	*N	S2*
Start Date:	1/23/14	Start Qty: 12.00	*12*		Cust Item	ID:				•		
Required Date: 4	1/23/14	Req'd Qty: 12.00	*12*		Customer	•						
Reference:												-%
Approvals:	Process Pla	an: MLJ	Date: 14-04-29	Tooling:]	Date:			Run	Start	*N	R1*
	QC:		Date:	SPC (Y/N):		Date:				Stop	*//	R2*
Sequence ID/ Work Center ID		Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accep Qty	t Rej Qty		Reject Number	Insp. Stamp
Draw Nbr	Rev	vision Nbr	•-		***							
D3564	Rev	v D		•								
100				0.00					100			TEDAS /
100		FLOW WATER JET						(12)				99689/14.0
Waterjet		Memo		0.00								
FLOW CNC Waterjet		1-Cut as pe Deburr if n	er Dwg D3564 Dwg Rev:_ ecessary	Prog Rev:	_ 2-							mm
110		QC2- Inspect parts off r	machine FAI/FAIB	0.00							1	DAS
110								(12)				37 9-89 11/-05-1
QC		Memo		0.00								/ /4 = - /
Quality Control											,	mm
120		QC8- Inspect parts - sec	cond check	DAS 0.00 27								
120		1 ,		989				12				
QC		Memo		0.00 14151	\mathcal{S}			10				
Quality Control												

DQA:			Date:										•	$\mathcal{L}_{\mathcal{A}}$
						WORK ORDER NON-	-CC	ONFO	RMANCE / UP			_	_	AEROSPACE
QA Closed:			Date:							V	Vork Order u	odate only		1
Work Orde	er.					DISPOSITION				AGAINST D	EPARTMENT	/PROCESS		
Work Orac	-			•		Rework			Skid-tube	Crosstube	7	Water Jet	٦	Engineering
Part N	lo.					Scrap			Machining	Small Fab	Pro	d. Eng. Coor.	┪	Quality
	-					Use-as-is			noforming	Finishing	-	re/Packaging	╗	Other
NCR N	۱o					Suspected Unapproved			Large Fab	Composite		Supplier		
Root	1		1		Desc	ription of work order update	ا	Initial	Actio	n .	Sign &		1	
Cause		Date	Step	Qty	Desc	or non-conformance		ief Eng			Date	Verification	.	QC Inspector
Design	1	Date	эсер	Qty.		or non comormance	Cil	ilei Liig	Descrip	7(1011	Dute	Vermedion	+	QC IIISPECTOI
Doc/Data	\dashv								•					
Equip/Tooling				:								i	-	
Handling/Pre											}			
Material														
Operator *	منہ کے													
Offset/Setup	(A) =										.			
Process														
Supplier														
Training								•						
Transport														
Unapproved	Ł										<u> </u>			
,							FAI	ULT CA	TEGORY					
Landii	_				_	General	_	1 .		_	_	Г	_	
	_	Bending				Bend		4	Program	ļ	Outside Dim	 		Pressure/Forced
	$\boldsymbol{\vdash}$	Centre No	ot Concer	ntric	<u> </u>	BOM/Route		Grain		<u> </u>	Over/Under	—	—ۥ	Set-up
	-	Cracks			\perp	Broken/Damage/Defect	⊢	Hardwa			Part Incorre	· -	_	Temperature/Cure
	_	Crimp/Kir	nk/Ripple	/Wave	\vdash	Burrs		1 '	ion Incomplete/Unq		Part Lost/Mi	ssing	_	Weld
	-	Cuffs			\vdash	Contamination	<u> </u>	4	tions Incomplete/Un	nclear	Part Moved	<u>L</u>	\ل	Wrong Stock Pulled
	-	Crushing			<u> </u>	Countersink	L	-1	gned/off center	-	Positioned V		٦,)+har
		Heat Trea		- .	-	Cut Too Short		Mislabe			Power Loss/	Surge _	10	Other
	—	Inspectio	•	Tube	\vdash	Drawing		Misrea				+"		
	${f H}$	Marks/Ch				Drill Holes		Off-set			-			
	${f}$	Turning S			<u> </u>	Finish	_	4	Calibration		-			
ļ	ı	Wave/Tw	ist in Tub	эe	- 1	Fit/Function	l	Jout of :	Sequence					

117119

Page 2

April-24-14 9:52:39 AM Item ID: D3564-13 Accept *N900040100* Setup Start Revision ID: Stop Item Name: Stainless Steel Wearpad Fwd **Start Date: Start Otv: 12.00** *19* 4/23/14 **Cust Item ID:** Required Date: 4/23/14 Rea'd Otv: 12.00 *19* **Customer:** Reference: Run Start Process Plan: Date: Tooling: Approvals: Date: Stop Date: SPC (Y/N): OC: Date: Sequence ID/ Operation Tool ID Set Up/ Tool # Plan Accept Reject Reject Insp. Work Center ID Description **Run Hours** Code Otv Otv Number Stamp 130 0.00 NC BRAKE *120* DAS Brake NC 0.00 30 9-89 Brake NC. Deburr if necessaryForm on Brake as per Dwg D3564 using Jigs DT 8179 OAS 27 140 QC5- Inspect part completeness to step on W/O 0.00 *110* ОC 0.00 Memo Quality Control 34 34 9-89 150 Grey Sandtex(Ref:4.3.5.6) per QSI605 4.3 0.00 12 0 14-5.22 *150* Powdercoat 0.00 Memo Powder Coating OVEN TEMPERATURE:

DQA:		Date: WORK ORDER NON-CONFORMANCE / UPDATE							TRAC					
QA Closed:		Date:			WORK ORDER NON-	-C(ONFO	RMANCE / UI	PDATE	W	ork Order up	odate only		AEROSPACE
	······································				DISPOSITION				AGAINST		PARTMENT			
Work Orde	er:										•			
					Rework			Skid-tube	Crosstube	-		Water Jet		Engineering
Part N	lo				Scrap		i	Machining	Small Fab				_	Quality
NCR N	lo.				Use-as-is Suspected Unapproved		Thern	noforming Large Fab	Finishing Composite		Rec/Stoi	re/Packaging		Other
NCK IV					Suspected Onapproved			raige rab	Composite	e Supplier			•	
Root				Desci	ription of work order update	ı	nitial	Act	ion		Sign &			
Cause	Date	Step	Qty		or non-conformance	Ch	ief Eng	Descr	iption		Date	Verification	Щ	QC Inspector
Design														
Doc/Data	_													
Equip/Tooling												:		
Handling/Pre														3
Material						1								
Operator														
Offset/Setup	_													
Process	_													
Supplier	_													
Training														
Transport														
Unapproved				l		<u> </u>		55000%			l			
		· .				FAU	ULI CA	TEGORY			~=			· · · · · · · · · · · · · · · · · · ·
Landin	g Gear				General		11:-7			Γ_	Outside Dim	ansians [Pressure/Forced
-	Bending	- 4 6		ļ	Bend BOM/Route	-	Grain	rogram		\vdash	Over/Under	F	_	Set-up
}	Centre No	ot Conce	nunc	\vdash	Broken/Damage/Defect		Hardwa	uro.		\vdash	Part Incorred	t t		Temperature/Cure
ŀ	Cracks Crimp/Kir	ak/Rinnle	\/\\/ava	-	Burrs		4	ire ion Incomplete/Un	aualified		Part Lost/Mi	ŀ		Weld
-	Cuffs	ik/ Kibbie	e, wave	-	Contamination	\vdash	4 '	ions Incomplete/U	-	\vdash	Part Moved	331116		Wrong Stock Pulled
}	Crushing			\vdash	Countersink	\vdash	4	ned/off center	/Holeal	\vdash	Positioned V	L √rong		ong otock ranea
ŀ	Heat Trea	nt		\vdash	Cut Too Short	<u> </u>	Mislabe			\vdash	Power Loss/			Other
	Inspectio		Tube		Drawing	\vdash	Misread			L	1. 0.1.01. 2000)	o [
ŀ	Marks/Ch	•		<u> </u>	Drill Holes		Off-set				****			
ŀ	_			-			-					· · · ·		
<u> </u>	Wave/Tw	•			Fit/Function		4							
	Turning S Wave/Tw	•			Finish Fit/Function		Out of Calibration Out of Sequence							

	Work	Order ID	117119
--	------	----------	--------

i i

117119

Page 3

April-24-14 9:52:39 AM Item ID: D3564-13 Accept *N900040100* Setup Start **Revision ID:** Stop Item Name: Stainless Steel Wearpad Fwd Start Date: 4/23/14 *19* **Start Oty:** 12.00 **Cust Item ID:** Required Date: 4/23/14 Reg'd Otv: 12.00 *19* Customer: Reference: Run Start Process Plan: Date: Approvals: Tooling: Date: Stop Date: SPC (Y/N): Date: Sequence ID/ Operation Tool ID Set Up/ DAS Tool # Plan Accept Reject Reject Insp. Work Center ID Description Run Hours 27 Code Oty Otv Number Stamp 160 OC3- Inspect Part Finish 0.00 *160* OC Memo Quality Control Identify as per dwg & Stock Location: FP 002 0.00 170 12v & Il 1405/27 *170* Packaging 0.00 Memo Packaging 180 QC21- Final Inspection - Work Order Release 0.00 *120* MLJ 140526 MLJ 140523 OC 0.00 Memo Quality Control

DQA:		Date:	WORK ORDER NON-CONFORMANCE / UPDATE						TRAC				
QA Closed:		Date:			WORK ORDER NON-	-C(ONFO	RMANCE / U	PDATE	W	ork Order up	odate only	AEROSPACE
											•		
Work Orde	r:				DISPOSITION				AGAINST	DE	PARTMENT	/PROCESS	
				_	Rework			Skid-tube	Crosstube			Water Jet	Engineering
Part N	o				Scrap			Machining	Small Fab		Pro	d. Eng. Coor.	Quality
	•				Use-as-is		Thern	noforming	Finishing		Rec/Sto	re/Packaging	Other
NCR N	0				Suspected Unapproved			Large Fab	Composite			Supplier	J []
Root				Desci	ription of work order update	П	initial	Acti	ion		Sign &		
Cause	Date	Step	Qty		or non-conformance	Ch	ief Eng	Descri	iption		Date	Verification	QC Inspector
Design													
Doc/Data								:					
Equip/Tooling													
Handling/Pre													
Material													
Operator]											
Offset/Setup													
Process													
Supplier								1					
Training													
Fransport .													
Jnapproved				l									
					<u> </u>	FA	ULT CAT	regory					
Landin					General	_	1.			_	7 .	_	-
L	Bending				Bend	<u> </u>	4 .	rogram		_	Outside Dim		Pressure/Forced
1	Centre No	ot Concei	ntric		BOM/Route	<u> </u>	Grain				Over/Under	<u> </u>	Set-up
-	Cracks				Broken/Damage/Defect	<u> </u>	Hardwa			_	Part Incorre	<u> </u>	Temperature/Cure
L	Crimp/Kir	nk/Ripple	e/Wave	-	Burrs	L	4 '	ion Incomplete/Un	•	<u> </u>	Part Lost/Mi	ssing	Weld
-	Cuffs				Contamination	╙	4	ions Incomplete/U	Inclear	_	Part Moved	_	Wrong Stock Pulled
	Crushing			<u> </u>	Countersink	\vdash	4	ned/off center		<u> </u>	Positioned V		7
<u> </u>	Heat Trea			<u> </u>	Cut Too Short		Mislabe			L	Power Loss/	Surge	Other
	Inspectio		Tube	<u> </u>	Drawing	_	Misread						
	Marks/Ch			<u> </u>	Drill Holes	_	Off-set						
<u> </u>	Turning S	•		<u> </u>	Finish	_	4	Calibration				-	
	Wave/Tw	<u>rist in T</u> ul	be		Fit/Function		Out of S	Sequence					

Page 1

Work Order ID: 117119

117119

Parent Item:

D3564-13

D3564-13

Parent Item Name: Stainless Steel Wearpad Fwd

Start Date: 4/23/14

Required Date: 4/23/14

Start Qty: 12.00

Required Qty: 12.00

Comments:

IPP Rev:A

New Issue 07-03-08 ec

IPP Rev:B

As per Rev C 07-07-09 JLM

IPP Rev:C

As per Rev D 07-09-09 JLM Verified By:EC

IPP Rev:D Comments revised on Step 5, 6 per B44657 09-02-04 KJ

Verified By:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Primary Item Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304S16GA		Purchased	No		100	sf	123.2670	0.222	3	·		
M304S16	SGA							**		r	MΜ	14/05/17

304/316 Sheet .063

Location	Loc Oty	Loc Code	
MAT020	123.267		<u> </u>
M126915	0.737		
M127821	122.53		
m129192			3.

DQA:		Date:		. <u>-</u>	WORK ORDER NON-CONFORMANCE / UPDATE						TRACT		
QA Closed:		Date:			WORK ORDER NON-	-CC	ONFOI	RMANCE / U	PDATE	W	ork Order up	odate only	AEROSPACE
Q, r closeu.		- Dute.					:	,					<u> </u>
Work Orde	r:				DISPOSITION				AGAINST	DE	PARTMENT,	PROCESS	
					Rework			Skid-tube	Crosstube			Water Jet	Engineering
Part N	0				Scrap			Machining	Small Fab		Pro	d. Eng. Coor.	Quality
					Use-as-is		Thern	noforming	Finishing		Rec/Stor	e/Packaging	Other
NCR N	0				Suspected Unapproved			Large Fab	Composite	L_	j	Supplier	ا لـا
Root		T .		Desci	ription of work order update		nitial	Acti	ion		Sign &		1
Cause	Date	Step	Qty	Desci	or non-conformance		ief Eng	Descri			Date	Verification	QC Inspector
Design	- Butte	Step	αι,		·	<u> </u>	ici ciig	2000					
Doc/Data	_	}											
quip/Tooling	_												
Handling/Pre													
Material	\neg												
Operator													
Offset/Setup		İ											
Process			ĺ					,					
Supplier													
Training													
Transport]											
Jnapproved												<u></u> .	
					· · · · · · · · · · · · · · · · · · ·	FAI	ULT CAT	EGORY				<u></u>	·····
Landin	g Gear				General		1 .				1		.
Ĺ	Bending			<u> </u>	Bend		•	rogram		-	Outside Dim		Pressure/Forced
1	Centre N	ot Conce	ntric	_	BOM/Route		Grain				Over/Under	<u> </u>	Set-up
	Cracks			<u> </u>	Broken/Damage/Defect	<u> </u>	Hardwa		116	-	Part Incorred	<u> </u>	Temperature/Cure
-	Crimp/Kii	nk/Ripple	e/Wave		Burrs	<u> </u>		on Incomplete/Un	•	\vdash	Part Lost/Mi	ssing	Weld
-	Cuffs				Contamination	_	4	ions Incomplete/U	ıncıear	-	Part Moved	/rana	Wrong Stock Pulled
}	Crushing				Countersink	<u> </u>	4	ned/off center		-	Positioned V Power Loss/	_	Other
}	Heat Trea		Tula		Cut Too Short	-	Mislabe				Jeower Loss/:	ourke	Other
}	Inspectio	•	iupe	<u> </u>	Drawing Drill Holes	_	Misread	ı					
-	Marks/Ch			\vdash	Finish	-	Off-set	Calibration					
}	Turning S Wave/Tw	•		-	Fit/Function	\vdash	1	Sequence					
	I vv ave/ I w	viscini TUI	JE		i iy i ulicuoli	1	Jour of 3	equence					

DART AEROSPACE LTD	Work Order:	117119
Description: Wearshoe	Part Number:	D3564-13
Inspection Dwg: D3564 Rev: D		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X First Article Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
7.00	+/-0.030	7.00		✓.	5km-08	
2.432	+/-0.010	2,432	/			
3.227	+/-0.010	3.227				
3.500	+/-0.010	3500				
0.300 x 0.300	+/-0.010	0.301 x301				
Ø0.188	+0.005/-0.001	0.187				
0.063	+/-0.010	0.062				
		_			·	
	19175					
	TAS		DAS			

Measured by: 9-89 mm Audited by: 9-89 Prototype Approval: N/A

Date: 14.05.17 Date: N/A

Rev	Date	Change	Revised by	Approved
Α	07.04.02	New Issue	KJ/JLM	
В	07.07.18	Dimensions updated per Dwg Rev. C	KJ/JLM , ,	
С	08.02.28	Dwg Rev updated	KJ/DD ox	<i>X</i>





